

PRASHANT PRASAD KANTH

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EDUCATION

MSc, Computer Science Rutgers University-New Brunswick (CGPA: 4.0)	Sep 2021 - May 2023
BE, Computer Science and Engineering Bangalore Institute of Technology (Percent: 77)	Aug 2013 - Jun 2017
Relevant Courses: DBMS, Data Structures and Algorithms, Artificial Intelligence, Computer Vision, Massive Data Storage	

PROFESSIONAL EXPERIENCE

Artrendex New Jersey, US	Jun 2022 – Sep 2022
<i>Machine Learning Research Intern (tech: Python, PyTorch, OpenCV, Tensorboard, Numpy, Pandas, skimage)</i>	
<ul style="list-style-type: none">Improved reusability of data pipeline by generalising pre-processing and overriding PyTorch's Dataset class to reduce manual labor by 10%Performed transfer learning on deep learning models like VGG and achieved 94% test accuracyResearched on positional embedding options for image patch sequencing involving Vision TransformersExplored 3D CNN variation of Resnet, 'R3D-18', for art classification	
Rutgers University New Jersey, US	Feb 2022 - May 2022
<i>Teaching Assistant (Discrete Mathematics)</i>	
<ul style="list-style-type: none">Tutored a class of 50 students on concepts of combinatorics and probability	
Oracle Bangalore, India	Jul 2017 - Jun 2021
<i>Cloud Consultant (tech: Oracle SQL, Relational Databases, Java, Oracle BI, MS Excel, XML)</i>	
<ul style="list-style-type: none">Lead integration and report development track from planning phase to production deploymentDeveloped 50+ SQL reports to be used in client's production environment for ETL operationsRemodelled Java automation program by integrating with REST APIs to bring down manual effort data migration by 20%Built "Text2File Generator" using Java Swing/AWT, reducing data migration time by almost 75%Conducted training sessions for 40+ new hires	

PROJECTS

Querying on Streaming Data (tech: Python, Apache Spark, boto3, matplotlib)	Oct 2022 - Nov 2022
<ul style="list-style-type: none">Reduced 30% pre-processing time on approx. 130GB (40M records) of data using MapReduce and saved significant storage space by writing data into parquet formatDesigned a pipeline using Apache Spark in python to consume streaming data and provide real-time visualization on top scholarly works using matplotlib animation	
Facial Sketch to Colored Images Using GANs (tech: Python, PyTorch, NumPy, OpenCV)	Feb 2022 - Apr 2022
<ul style="list-style-type: none">Implemented 3 variations of conditional image generative models, GANs, involving U-Net architectureRefined 2 datasets to allow the network to learn more facial representative features leading to better results	
Character Recognition (tech: Python, skimage, NumPy, seaborn)	Feb 2022 - Feb 2022
<ul style="list-style-type: none">Devised a character recognition model to achieve 83% test accuracy using concepts of image processingEmployed nearest neighbour with 14 features like hu moments and symmetrical properties for recognition	
The Imitation Game (tech: Python, Keras, NumPy, Pandas, matplotlib)	Oct 2021 - Nov 2021
<ul style="list-style-type: none">Achieved 98% and 99% accuracy on ANN and CNN respectively to mimic an agent's movement in maze.Collected training data from 3-different implementations of maze runner using repeated A-star algorithm	
Smart Health Prediction using Naive Bayes Classifier (tech: Java, JDBC, HTML, CSS)	Feb 2017 - Jun 2017
<ul style="list-style-type: none">Integrated backend and middleware easing data access for user classification into 3 categories: Lung Cancer, Thyroid and HypertensionSupported in web development for data entry of new users and displaying collected statistics charts	

TECHNICAL SKILLS

Languages: Python, SQL, Java, R, MATLAB, C, C++, HTML, JavaScript | **Operating Systems:** Windows, Linux, MacOS
IDEs: VS Code, Jupyter Notebook, Spyder | **Frameworks and Tools:** PyTorch, sklearn, skimage, OpenCV, NumPy, Pandas, PySpark, Matplotlib, Git

CERTIFICATIONS

Introduction to NoSQL Databases – Coursera IBM	Sep 2022
Machine Learning - authorized by Stanford online and offered through Coursera	Jun 2022
Oracle Database SQL Certified Associate	Jul 2020
Oracle Cloud Infrastructure Foundations Certified Associate	Jul 2020